



## TRANSMITTAL FORM

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Total Number of Pages in This Submission

110

Application Number	10/796236
Filing Date	March 8, 2004
First Named Inventor	Guanghua G. Zhang
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	PEN-106/US

### ENCLOSURES (Check all that apply)

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Firm or Individual name	Marek Alboszta Reg. No. 39,894
Signature	
Date	31 March 2004

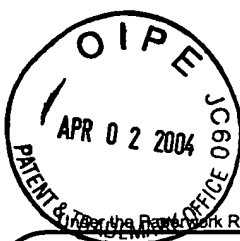
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**Complete if Known**

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Examiner Name	Not yet assigned
Attorney Docket Number	PEN-106/US

Sheet 4 of 5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	✓	AIT-AIDER ET AL., "Adaptation of Lowe's Camera Pose Recovery Algorithm to Mobile Robot Self-Localisation", Robotica 2002.	
	4	AIT-AIDER ET AL., "Model to Image Straight Line Matching Method for Vision-Based Indoor Mobile Robot Self-Location", IROS 2002, Lausanne, 30 Sept. - 4 Oct.	
	✓	ANSAR ET AL., "Linear Pose Estimation from Points or Lines", ECCV 2002, LNCS 2353, pp. 282-296, Springer-Verlag Berlin Heidelberg 2002.	
	△	BATISTA ET AL., "Pose View Stability Analysis for Camera Look Angles Computation", Institute of Systems and Robotics - Dep. of Elec. Engineering, Univ. of Coimbra, Portugal.	
	✓	FAUGERAS, Three-Dimensional Computer Vision: A Geometric Viewpoint, Cambridge, MA: MIT Press 1993. ISBN 262-06158-9	
		GOLDSTEIN, ET AL., Classical Mechanics, 3rd Edition, Addison Wesley 2002.	
		SCHRAMM ET AL., "Computer Graphic Simulation of Light Reflection from Paper", IS&T PICS Conference, 1998, pp.412-423.	
		SCHROERING ET AL., "A New Input Device for 3D Sketching", Washington University in St. Louis.	
		SHRIKHANDE AND STOCKMAM, "Surface Orientation from a Projection Grid", PAMI (11), No. 6, June 1989, pp. 650 - 655.	
		TRUCCO, EMANUELE, VERRI, ALESSANDRO, Introductory Techniques for 3-D Computer Vision, New York: Prentice Hall 1998. ISBN 0-13-261108-2	

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First Named Inventor

Guanghua G. Zhang

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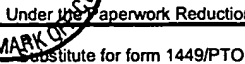
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		UDE, "Nonlinear Least Squares Optimisation of Unit Quaternion Functions for Pose Estimation from Corresponding Features", Conf. Pattern Recognition, Brisbane, pp425-427 Aug 98	
		WANG ET AL., "Computation of Surface Orientation and Structure of Objects Using Grid Coding", PAMI (9), No. 1, January 1987, pp. 129 - 137.	

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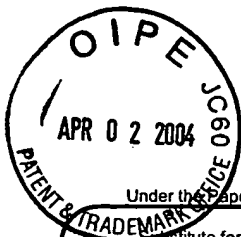
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**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,330,057 B1	12-11-2001	Lederer et al.	
		US- 6,424,407 B1	07-23-2002	Kinrot et al	
		US- 6,492,981 B1	12-10-2002	Stork et al.	
		US- 6,493,032 B1	12-10-2002	Wallerstein et al.	
		US- 6,556,190 B1	04-29-2003	Fleck et al.	
		US- 6,592,039 B1	07-15-2003	Smith et al.	
		US- 6,627,870 B1	09-30-2003	Lapstun et al.	
		US- 6,639,685 B1	10-28-2003	Gu et al.	
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		US- 6,686,579 B2	02-03-2004	Fagin et al.	
		US- 2002/0001029 A1	01-03-2002	Abe	
		US- 2002/0048404 A1	04-25-2002	Fahraeus et al.	
		US- 2002/0141616 A1	10-03-2002	Cox et al.	
		US- 2002/0148655 A1	10-17-2002	Cho et al.	
		US- 2002/0180714 A1	12-05-2002	Duret	
		US- 2003/0025951 A1	02-06-2003	Pollard et al.	
		US- 2003/0029919 A1	02-13-2003	Lynggaard et al.	
		US- 2003/0034961 A1	02-20-2003	Kao	
		US- 2003/0063200 A1	04-03-2003	Isoyama	

**FOREIGN PATENT DOCUMENTS**

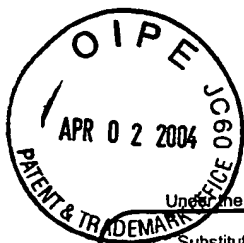
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
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		US- 5,166,668	11-24-1992	Aoyagi	
		US- 5,239,489	08-24-1993	Russell	
		US- 5,434,371	07-18-1995	Brooks	
		US- 5,764,611	06-09-1998	Watanabe	
		US- 5,786,804	07-28-1998	Gordon	
		US- 5,850,058	12-15-1998	Tano et al.	
		US- 5,902,968	05-11-1999	Sato et al.	
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		US- 5,981,884	11-09-1999	Sato et al.	
		US- 6,023,291	02-08-2000	Kamel et al.	
		US- 6,033,086	03-07-2000	Bohn	
		US- 6,034,716	03-07-2000	Whiting et al.	
		US- 6,057,909	05-02-2000	Yahav et al.	
		US- 6,081,261	06-27-2000	Wolff et al.	
		US- 6,181,329 B1	01-30-2001	Stork et al.	
		US- 6,212,296 B1	04-03-2001	Stork et al.	
		US- 6,249,274 B1	06-19-2001	Svancarek et al.	
		US- 6,291,829 B1	09-18-2001	Allen et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		JP 6-67,799	03-11-1994	Munemasa		
		WO 02/17222 A2	02-28-2002	IBM		

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